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TITLE: FILAMENT YARN FOR AIR BAG  
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ABSTRACT:

PURPOSE: To obtain polyester filament yarn having mechanical properties such as tensile strength and elongation necessary for air bag base fabric when woven or knitted and capable of giving fabrics with flexibility as well as such mechanical properties.

CONSTITUTION: This filament yarn comprises conjugate

fibers each of which is made up of core component consisting of polyethylene terephthalate  $\geq 0.8$  in intrinsic viscosity and sheath component consisting of a copolymer of polyethylene terephthalate and polybutylene terephthalate at the molar ratio of (85:15) to (90:10) with the core/sheath weight ratio of (50:50) to (70:30), having the following characteristics: single fiber fineness: 1-3 denier; total fineness: 200-500 denier; tenacity:  $\geq 8$ g/d: elongation at break:  $\geq 15\%$ ; and flexural rigidity satisfy the relationship:  $B \leq 5.5 \times 10^{-6} \times TD$  (B is flexural rigidity, g.cm<sup>2</sup>/FY; TD is total fineness, denier).

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